HOLUX

GVR-2100 G1

User Manual

Version: V1.1

Welcome:

Thank you kindly for purchasing this fine product.

Much investment in time and effort has gone into its development, and it is our hope that it will give you many years of trouble-free service.

Important Notice

1. Do not drop, puncture or disassemble the device; otherwise the warranty will be voided.

2. Avoid all contact with water, and dry hands before using.

3. Use the device with care. Avoid pressing hard on the device body.

4. For your own safety, avoid using the device when there is a storm or lightning.

5. Use only the accessories supplied by the manufacturer.

6. Keep the device out of the reach of infants.

7. When you get off the car, do not leave the device on the dashboard that is subject to direct sunlight.

8. For your own safety, do not operate the controls of the product while driving. This product is intended to be used as a car Camcorder aid only.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Move the equipment away from the receiver. -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/ television technician for

additional suggestions.

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void Your authority to operate such equipment.

If the time arises to throw away your product, please recycle all the components possible.

Batteries and rechargeable batteries are not to be disposed in your domestic waste! Please recycle them at your local recycling point.
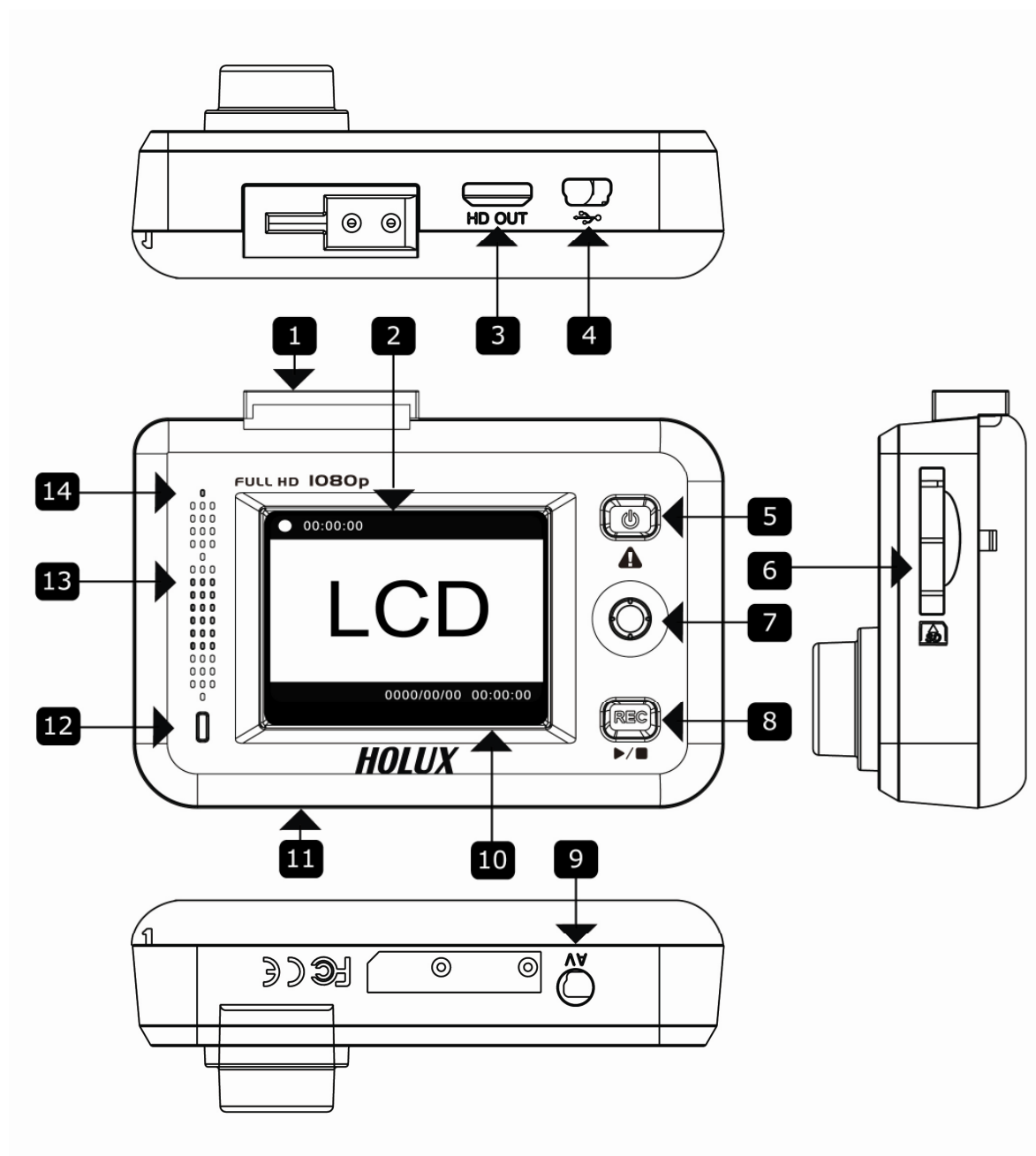
Together we can help to protect the environment.

Copyright Information

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any mean, without the express written permission of HOLUX Technology, Inc.

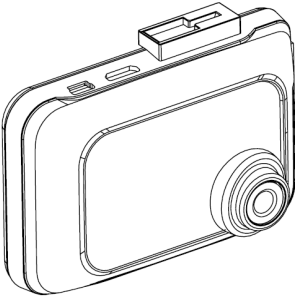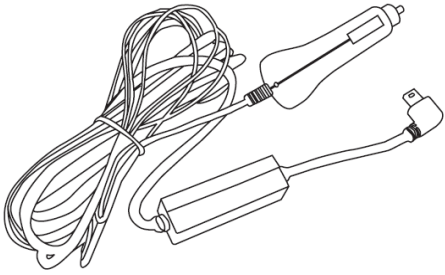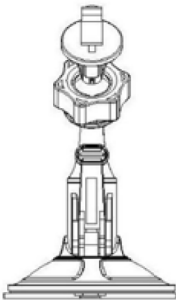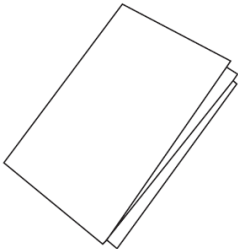Copyright, All Rights Reserved.

Table of Contents

Product Overview

① Mounting bracket	⑧ REC button (stop/ start)
② LCD display	⑨ AV-out port
③ HDMI out	⑩ Date time indicator
④ Power connector	⑪ Serial number location
⑤ Power (ON/ OFF switch)/ Emergency button	⑫ LED (RED = REC; Green = STAND BY)
⑥ SD card slot	⑬ Speaker
⑦ Joystick control	⑭ Microphone

Package Content

Car Recorder	Cigar Car Charger
Bracket	Quick Guide
AC adapter (optional)	HDMI cable (optional)
AV cable (optional)	

※ All parts shown in the illustration can be purchased separately from local distributor.

Operation

Installation

1. Use Cigar Car Charger and connect USB terminal to the Car Camcorder power connector.

2. Adjust the car recorder angle before placing it on the vehicle.

3. Sliding from right to left into the bracket until you hear a click.
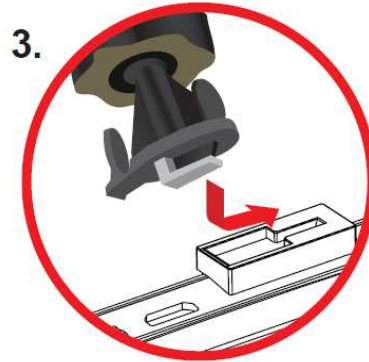
※ To ensure proper startup operation, please use the supplied Cigar Car Charger or Power Adapter (optional).

Installation suggestions

1. Be sure to place the device in an appropriate place, so as not to obstruct the driver's view or deployment of air bags.

2. Use the Top 1/5 of the windshield.

3. Be sure the interior rear view mirror/ viewing area mirror does not block the camera.
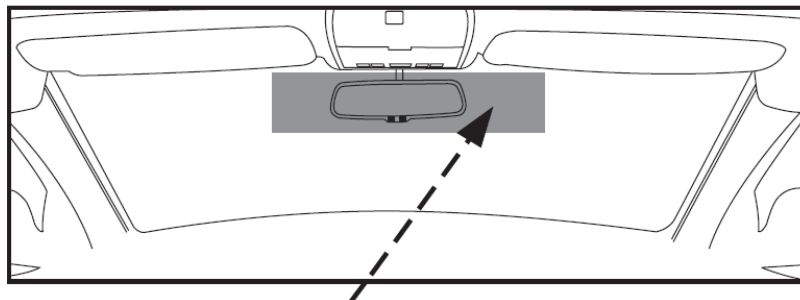
Recommended installed location

Setting Clock

1. Connect the power supply to the Car Camcorder.

2. Power on the Car Camcorder.

3. Press the Right key (►) and the Menu setting display will appear.

4. Using the Down key (▼) to select Clock and press the (●) button.

5. Set the value by using Up/ Down key (▲/▼).

6. To shift between year, month, date, hour, minute, second, short press the Left/ Right key (◄/►).

7. When date and time done, press the (●) OK key to save and exit this setting.

4.   **6.**

SETTINGS	11:11:42
Date/Time	►
Date Stamp	
Auto Play	
Monitor Mode	
Motion Detection	

SETTINGS

▲
2012 / 06 / 12
▼
11 : 13 : 47
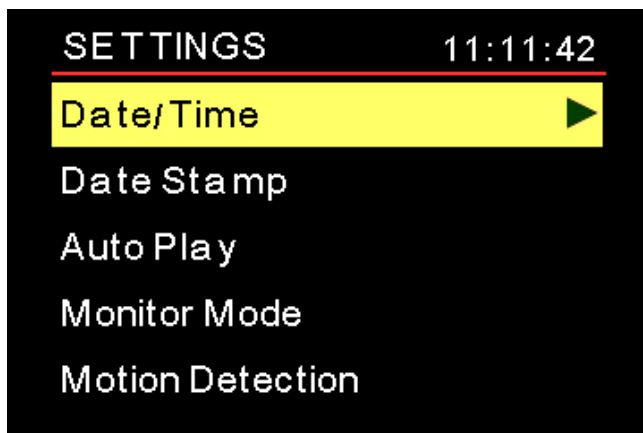
Using the memory card

1. Gently push the card as indicated (golden-fingers facing downwards) until the card reaches the end of the slot.

2. To remove the card, push the card to release it and then pull it out gently.

3. Video Storage Capacity as below (Note: The actual value of capacity may vary (up to ± 30%) depending on the color saturation and complexity of your subject and surroundings.)

Memory Size / Resolution	8GB	16GB	32GB
1080p/ 30fps	100	200	400
720p/ 60fps	140	280	560
720p/ 30fps	180	360	720

Unit: minutes

※ We strongly recommend you that the memory card is strictly for the car Camcorder use only. (Recommended specification: 4GB SDHC Class 6 or above.)

※ Make sure the memory card is not in write protection

※ Must format the memory card before use by Car Camcorder or PC/NB.

※ Never remove the memory card during the recording process, fatal memory card damage could result.

※ Certain types of memory cards may not be recognized, take out the card and inset again or just change to another card if this occurs.

※ Be sure to backup your data before overwriting the memory card.

Recording

Normal recording

1. Setup up Car Camcorder properly before operation.

2. Press the Record key (REC) to start the recording.

3. Press the Record key (REC) again to stop the recording.

2

※ Car Camcorder will automatically start recoding when car engine started if "Automatic Recording" of Menu item is set to "On".

※ For preventing data lost, do not turn off the power immediately after pressing the Emergency Recording button.

※ For more recording space, please backup old files in advance; otherwise, old recording files will be overwritten.

※ During recording, it will generate a new video file every 5 minutes.

Emergency Recording

As emergency happens, press the emergency recording button ( ) to start recording the event immediately. (The default settings is one minutes of total record time before and after event occurs) The system provides 15 storage units.
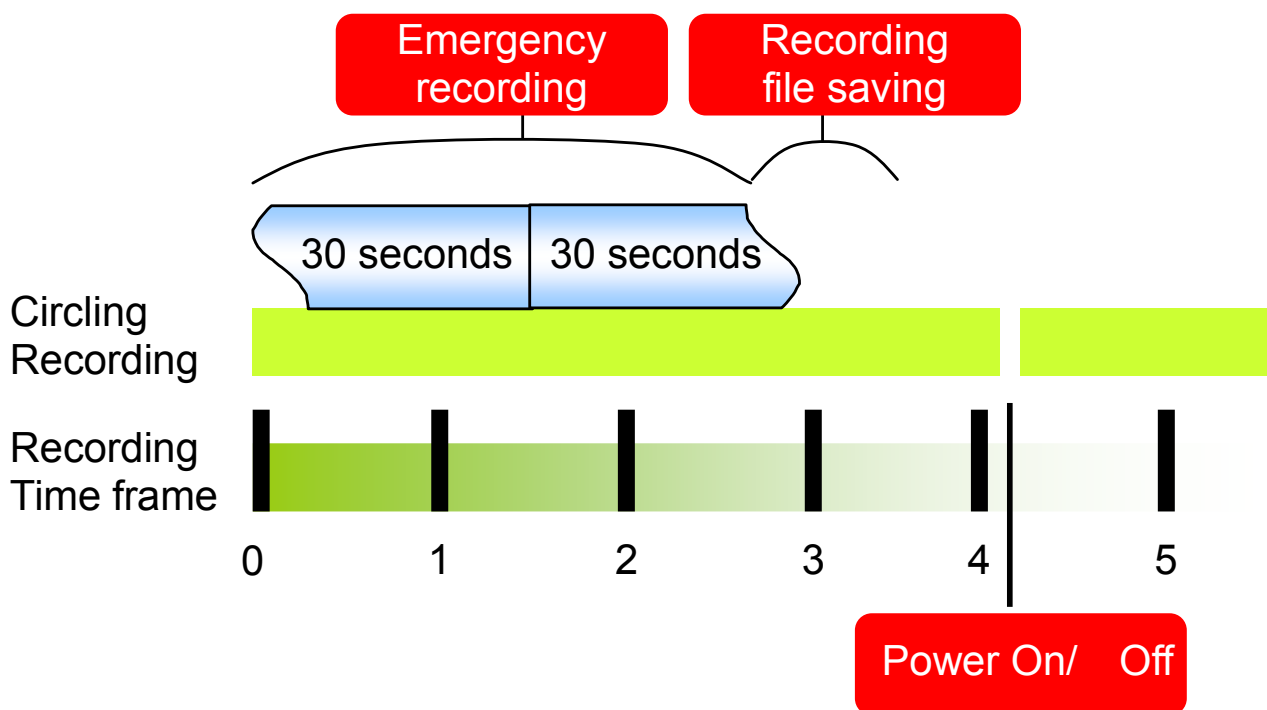
Emergency Recording operation

During an emergency situation, press the emergency recording button

(![icon]) to start recording the event immediately. Every emergency

recording file includes 30 seconds of footage prior to the recording and

will continue recording for 30 seconds; the length of each file is 1

minute.

1. When in recording or preview mode, please press the emergency

   recording button (![icon]) to start emergency recording.

2. Press the REC key (![REC]) again to stop the emergency recording.

3. When the panel shows (![icon]) icon, the system is automatically

   saving the file. It takes around 3-4 minutes to complete the file

   saving (Icon will disappear while file saving is completed). During

   this period, the power remains on, but note that the buttons are not

   operational.

2.   **3.**

Playback

Playback on a TV

1. To play on a TV, connect the drive recorder to the HDTV, TV (optional) or HDMI (optional) signal line on the TV.

2. The Recorded images will be displayed on the TV as thumbnails.

3. Select the normal recording file you wanted by right (►) or left key (◄) and then press the OK key (●) to start displaying.

4. The Car Camcorder will play the all the movies continuously from the chosen thumbnail image to the last one.

1.
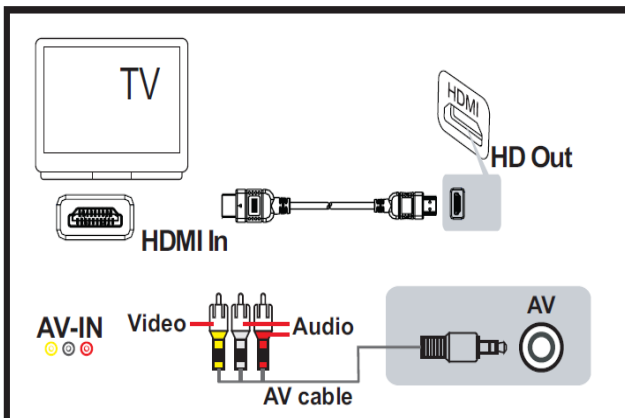
3.

Playback on built-in LCD

1. Press the OK key (●) during recording or preview mode to enter playback mode.

2. Select the normal recording file you wanted by right (►) or left key (◄) and then press the OK key (●) to start displaying.

3. Emergency and normal file switch: press the up key (▲).(▶ normal file; ⚠ emergency file)

Playback on a PC

1. Remove your memory card from the Car Camcorder and inset it into a Memory card slot on your PC or a card adapter connected to your PC.

2. Use your PC playback software for the H.264 avi file type. For example: Media Player Classic, Quick Time, Splash Lite, VLC Media Player, etc.

3. Depending on your PC's effectiveness, video card characteristics, memory size or Memory card transfer speed, your images may not play smooth and/ or sound may cut in and out.

4. If you rename a file in your PC, it will not be recognized by Car Camcorder

File Delete

Item	Option	Description
Delete One	----	Delete current file
Delete All	Yes/ No	Delete all files stored in the memory
Lock	Yes/ No	The current file can be locked. Select "Yes" to lock the file, and choose "No" to unlock the file. Delete function can not delete the locked file. Format function can delete all locked and unlocked file.
Cancel	----	Return to Playback Mode
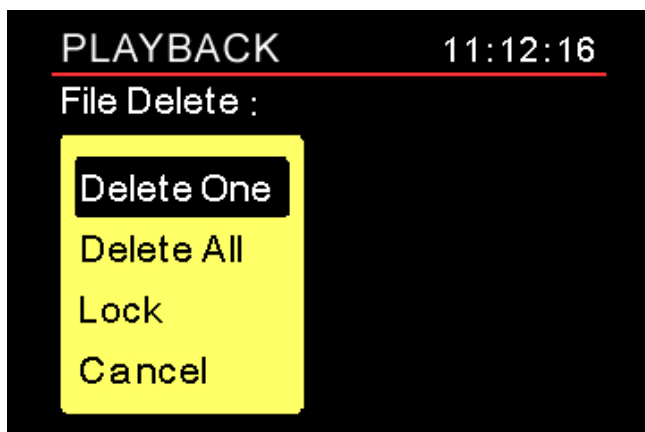
Menu Operation

Enter Menu mode

1. Press the Right key (►) during recording or preview mode to enter Menu mode.

2. Using the Down key (▼) or Up key (▲) to select Menu item and press the OK key (●) to confirm.

3. Press the Rec key (REC) to save and exit this setting.

SETTINGS	11:11:36
Resolution	►
Automatic Recording	
Recording Audio	
EV	
Bump Auto Record	

SETTINGS	11:11:42
Date/Time	►
Date Stamp	
Auto Play	
Monitor Mode	
Motion Detection	

SETTINGS	11:11:47
LCD Off	►
Volume Control	
Language	
TV System	
Format SD Card	

SETTINGS	11:11:53
Reset Factory Settings	►
Firmware Version	V 4007
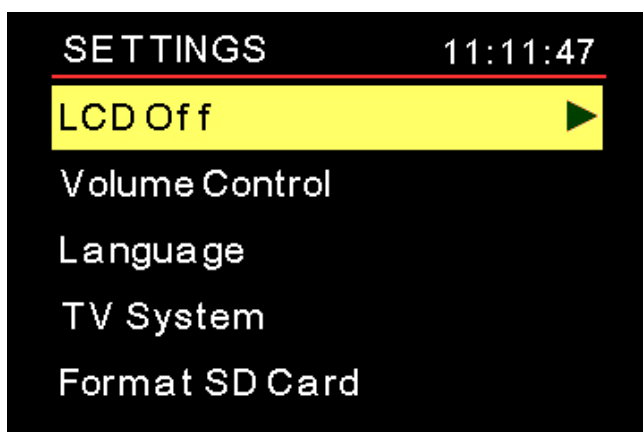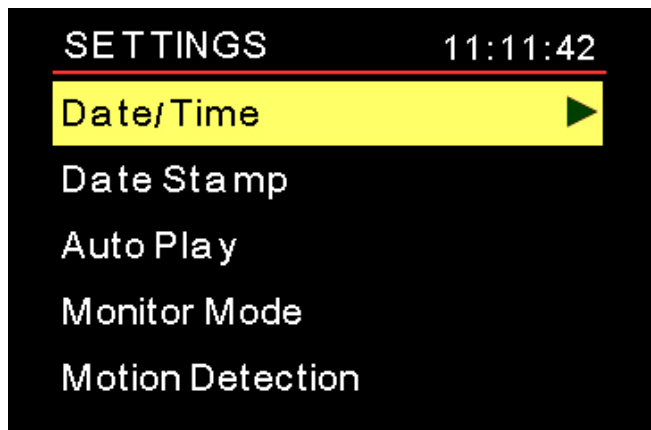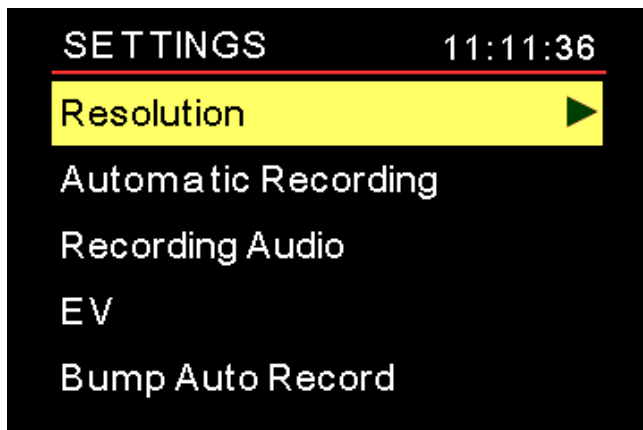
Item	Option	Description
Resolution	1080p30fps	Set the video resolution to 1080p (1920 x 1080), 30fps.
	720p60fps	Set the video resolution to 720p (1280 x 720), 60fps.
	720p30fps	Set the video resolution to 720p (1280 x 720), 30fps.
Automatic Recording	On	Car Camcorder will start to recording when starting the car.
	Off	Disable the Automatic Recording function
Recording Audio	Off	Turns off the audio recording function.
	On	Executes audio recording while recording video.
EV	-	-2/ -1/ 0/ 1/ 2
Bump Auto Record	Off	Cancel action.
	High Sensitivity	Selects automatic collision event recording according to different sensitivity levels.
	Mid Sensitivity	
	Low Sensitivity	
Date/ Time	-	To set up date and time.

	Off	Turn off the Date Stamp function.
Date Stamp	On	Print a date and time mark on the video.
Auto Play	Off	Turn off continuous playback.
	On	Indicates turning on continuous playback at playback mode.
Monitor Mode	Off	Turn off Monitor Mode.
	On	Monitor Mode would switch the recording speed to 1fps when the recoding scene stays the same for 53 sec. after recording begins. If the scene changes, recording speed would revert to 30fps and save this recording as a new file. When this function is selected, the movement detection and emergency recording functions are not operational.
Motion Detection	Off	Turn off Motion Detection.
	On	Motion Detection would switch to power saver mode and stop recording when the recoding scene stays the same for 53 sec. after recording begins. If the scene changes, recording would be restarted and save

		this recording as a new file. When this function is selected, the Monitor Mode and emergency recording functions are not operational.
LCD Off	Off	Default value
	10 sec.	If there is no activity for 10 seconds, the screen will automatically turn off and go into the sleep mode. It will recover again if any button is pressed.
	2 min.	If there is no activity for 2 minutes, the screen will automatically turn off and go into the sleep mode. It will recover again if any button is pressed.
Volume Control	Off ~ 100%	Off indicates muting the playback video.
		100% indicates increasing volume of the playback video to max.
Language	-	Select the OSD language used for Car Camcorder.
TV System	NTSC	This option is suitable for America, Taiwan, Japan and Korea areas.
	PAL	This option is suitable for Germany, England, Italy, Netherland, China, and Hong Kong areas.
Format SD Card	Cancel	Cancel action.
	Confirm	Format the memory card. Note that all

		files stored in the memory card will be gone.
Reset Factory Settings	No	Cancel action.
	Yes	Restore factory defaults. Note that your current settings will be overridden.
Firmware Version	-	Displays the current software version.

Specifications

Item	Description
Image sensor	5 Mega CMOS (2592x1944 pixels)
Recording Resolution	FULL HD 1080p/ 30f (1920 X 1080) HD 720p/ 30f (1280 x 720) HD 720p/ 60f (1280 x 720)
File format	AVI (AVC/ H.264)
Internal memory	32MB Nand Flash for Firmware coding only
External memory	Memory card (SDHC) up to 32 GB
File size (ea.)	5 minute file
LCD display	2.4 inch color LCD
Lens angle	Diagonal 120 degree; Horizontal 110 degree Vertical 80 degree
Lens	F2.0 fixed focus
Operation Temperature range	0°C ~ +65°C
Storage Temperature range	-20°C ~ +70°C
Power supply	Cigar car charge (Working voltage DC 10V ~ 30V) 5V/ 1A adaptor (input AC 100 ~ 240V 50/ 60Hz) (optional)
White balance	Auto
Exposure control	The default value is zero and can be adjusted manually.
Microphone	Yes

Date/ Time (RTC)	Yes
Circling Recording	Yes
Automatic Recording	Yes
Emergency Recording	Yes
Monitor Mode	Yes
Motion Detection	Yes
The screen will automatically turn off	Yes
The image flips	Yes
Time Stamp keeping time	At least 7.5 days
LED indicator	Green: power on Red: REC in process Red flashing: SD card not inserted/ recognized; can't recording
Interface	USB 2.0; HDMI/ AV output; SD slot
Dimensions	101 x 66.5 x 23.7 mm (L x W x H)
Weight	Approx 100 grams

Note: Specifications are subject to change without notice.